

PROPOSED

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
(x)

E CAB
File No. 0522-04

Mr. Christopher Steele
Environmental Compliance Manager
Grace Pacific Corporation
P. O. Box 78
Honolulu, Hawaii 96810

Dear Mr. Steele:

Subject: Covered Source Permit (CSP) No. 0522-01-C
Application for Minor Modification No. 0522-04
Grace Pacific Corporation
300 TPH Asphalt Plant
Located at: Kapaa Quarry, Kailua, Oahu
Date of Expiration: May 29, 2008

The subject covered source permit is amended in accordance with Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1. The amendment is based on the plans and specifications submitted as part of your application for a minor modification dated July 11, 2006 and the subsequent addendum dated December 1, 2006. The permit amendment provides for the combustion of biodiesel and grease trap oil (which is considered the same as cooking oil) in the drum mixer. In addition, the Compliance Certification Form is updated and revised.

This covered source permit supersedes, in its entirety, CSP 0522-01-C, issued on August 8, 2006. The covered source permit is issued subject to the conditions/requirements set forth in the following attachments:

Attachment I: Standard Conditions
Attachment II: Special Conditions
Attachment II - INSIG: Special Conditions - Insignificant Activities
Attachment III: Annual Fee Requirements
Attachment IV: Annual Emissions Reporting Requirements

The following forms are enclosed for your use and submittal as required:

Compliance Certification Form
Monitoring/Annual Emissions Report Form: Asphalt Drum Mixer
Monitoring Report Form: Visible Emissions

The following are for use in monitoring visible emissions:

Visible Emissions Requirements
Visible Emissions Form
The Ringelmann Chart

Mr. Christopher Steele
[Issuance Date]
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This permit: (a) shall not in any manner affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the equipment; and (c) in no manner implies or suggests that the Department of Health, or its officers, agents, or employees, assumes any liability, directly or indirectly, for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the equipment.

Sincerely,

THOMAS E. ARIZUMI, P.E., CHIEF
Environmental Management Division

AM:

Enclosures

c: CAB Monitoring Section

**ATTACHMENT I: STANDARD CONDITIONS
TEMPORARY COVERED SOURCE PERMIT NO. 0522-01-C**

**[Issuance Date]
2008**

Expiration Date: May 29,

This permit is granted in accordance with the Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1, Air Pollution Control, and is subject to the following standard conditions:

1. Unless specifically identified, the terms and conditions contained in this permit are consistent with the applicable requirement, including form, on which each term or condition is based.

(Auth.: HAR §11-60.1-90)
2. This permit, or a copy thereof, shall be maintained at or near the source and shall be made available for inspection upon request. The permit shall not be willfully defaced, altered, forged, counterfeited, or falsified.

(Auth.: HAR §11-60.1-6; SIP §11-60-11)²
3. This permit is not transferable whether by operation of law or otherwise, from person to person, from place to place, or from one piece of equipment to another without the approval of the Department of Health, except as provided in HAR, Section 11-60.1-91.

(Auth.: HAR §11-60.1-7; SIP §11-60-9)²
4. A request for transfer from person to person shall be made on forms furnished by the Department of Health.

(Auth.: HAR §11-60.1-7)
5. In the event of any changes in control or ownership of the facilities to be constructed or modified, this permit shall be binding on all subsequent owners and operators. The permittee shall notify the succeeding owner and operator of the existence of this permit and its conditions by letter, copies of which will be forwarded to the Department of Health and the U.S. Environmental Protection Agency (EPA), Region 9.

(Auth.: HAR §11-60.1-5, §11-60.1-7, §11-60.1-94)
6. The facility covered by this permit shall be constructed and operated in accordance with the application, and any information submitted as part of the application, for the Covered Source Permit. There shall be no deviation unless additional or revised plans are submitted to and approved by the Department of Health, and the permit is amended to allow such deviation.

(Auth.: HAR §11-60.1-2, §11-60.1-4, §11-60.1-82, §11-60.1-84, §11-60.1-90)
7. This permit (a) does not release the permittee from compliance with other applicable statutes of the State of Hawaii, or with applicable local laws, regulations, or ordinances, and (b) shall not constitute, nor be construed to be an approval of the design of the covered source.

(Auth.: HAR §11-60.1-5, §11-60.1-82)

8. The permittee shall comply with all the terms and conditions of this permit. Any permit noncompliance constitutes a violation of HAR, Chapter 11-60.1 and the Clean Air Act and is grounds for enforcement action; for permit termination, suspension, reopening, or amendment; or for denial of a permit renewal application.

(Auth.: HAR §11-60.1-3, §11-60.1-10, §11-60.1-19, §11-60.1-90)

9. If any term or condition of this permit becomes invalid as a result of a challenge to a portion of this permit, the other terms and conditions of this permit shall not be affected and shall remain valid.

(Auth.: HAR §11-60.1-90)

10. The permittee shall not use as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the terms and conditions of this permit.

(Auth.: HAR §11-60.1-90)

11. This permit may be terminated, suspended, reopened, or amended for cause pursuant to HAR, Sections, 11-60.1-10 and 11-60.1-98, and Hawaii Revised Statutes (HRS), Chapter 342B-27, after affording the permittee an opportunity for a hearing in accordance with HRS, Chapter 91.

(Auth.: HAR §11-60.1-3, §11-60.1-10, §11-60.1-90, §11-60.1-98)

12. The filing of a request by the permittee for the termination, suspension, reopening, or amendment of this permit, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

(Auth.: HAR §11-60.1-90)

13. This permit does not convey any property rights of any sort, or any exclusive privilege.

(Auth.: HAR §11-60.1-90)

14. The permittee shall notify the Department of Health and U.S. EPA Region 9 in writing of the following dates:

- a. The anticipated date of initial start-up for each emission unit of a new source or significant modification not more than sixty (60) days or less than thirty (30) days prior to such date;
- b. The actual date of construction commencement within fifteen (15) days after such date; and
- c. The actual date of start-up within fifteen (15) days after such date.

(Auth.: HAR §11-60.1-90)

15. The permittee shall furnish, in a timely manner, any information or records requested in writing by the Department of Health to determine whether cause exists for terminating, suspending, reopening, or amending this permit, or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Department of Health copies of records required to be kept by the permittee. For information claimed to be confidential, the Director of Health may require the permittee to furnish such records not only to the Department of Health but also directly to the U.S. EPA Region 9 along with a claim of confidentiality.

(Auth.: HAR §11-60.1-14, §11-60.1-90)

16. The permittee shall notify the Department of Health in writing, of the intent to shut down air pollution control equipment for necessary scheduled maintenance at least twenty-four (24) hours prior to the planned shutdown. The submittal of this notice shall not be a defense to an enforcement action. The notice shall include the following:
- Identification of the specific equipment to be taken out of service, as well as its location and permit number;
 - The expected length of time that the air pollution control equipment will be out of service;
 - The nature and quantity of emissions of air pollutants likely to be emitted during the shutdown period;
 - Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; and
 - The reasons why it would be impossible or impractical to shut down the source operation during the maintenance period.

(Auth.: HAR §11-60.1-15; SIP §11-60-16)²

17. Except for emergencies which result in noncompliance with any technology-based emission limitation in accordance with HAR, Section 11-60.1-16.5, in the event any emission unit, air pollution control equipment, or related equipment malfunctions or breaks down in such a manner as to cause the emission of air pollutants in violation of HAR, Chapter 11-60.1 or this permit, the permittee shall immediately notify the Department of Health of the malfunction or breakdown, unless the protection of personnel or public health or safety demands immediate attention to the malfunction or breakdown and makes such notification infeasible. In the latter case, the notice shall be provided as soon as practicable. Within five (5) working days of this initial notification, the permittee shall also submit, in writing, the following information:
- Identification of each affected emission point and each emission limit exceeded;
 - Magnitude of each excess emission;
 - Time and duration of each excess emission;
 - Identity of the process or control equipment causing the excess emission;
 - Cause and nature of each excess emission;
 - Description of the steps taken to remedy the situation, prevent a recurrence, limit the excessive emissions, and assure that the malfunction or breakdown does not interfere with the attainment and maintenance of the National Ambient Air Quality Standards and state ambient air quality standards;

- g. Documentation that the equipment or process was at all times maintained and operated in a manner consistent with good practice for minimizing emissions; and
- h. A statement that the excess emissions are not part of a recurring pattern indicative of inadequate design, operation, or maintenance.

The submittal of these notices shall not be a defense to an enforcement action.

(Auth.: HAR §11-60.1-16; SIP §11-60-16)²

18. The permittee may request confidential treatment of any records in accordance with HAR section 11-60.1-14.

(Auth.: HAR §11-60.1-14, §11-60.1-90)

19. This permit shall become invalid with respect to the authorized construction if construction is not commenced as follows:

- a. Within eighteen (18) months after the permit takes effect, is discontinued for a period of eighteen (18) months or more, or is not completed within a reasonable time.
- b. For phased construction projects, each phase shall commence construction within eighteen (18) months of the projected and approved commencement dates in the permit. This provision shall be applicable only if the projected and approved commencement dates of each construction phase are defined in Attachment II, Special Conditions, of this permit.

(Auth.: HAR §11-60.1-9, §11-60.1-90)

20. The Department of Health may extend the time periods specified in Standard Condition No. 19 upon a satisfactory showing that an extension is justified. Requests for an extension shall be submitted in writing to the Department of Health.

(Auth.: HAR §11-60.1-9, §11-60.1-90)

21. The permittee shall submit fees in accordance with HAR, Chapter 11-60.1, Subchapter 6.

(Auth.: HAR §11-60.1-90)

22. All certifications shall be in accordance with HAR, section 11-60.1-4.

(Auth.: HAR §11-60.1-4, HAR §11-60.1-90)

23. The permittee shall allow the Director of Health, the Regional Administrator for the U.S. EPA and/or an authorized representative, upon presentation of credentials or other documents required by law:

- a. To enter the premises where a source is located or emission-related activity is conducted, or where records must be kept under the conditions of this permit and inspect at reasonable times all facilities, equipment, including monitoring and air pollution control

equipment, practices, operations, or records covered under the terms and conditions of this permit and request copies of records or copy records required by this permit; and

- b. To sample or monitor at reasonable times substances or parameters to ensure compliance with this permit or applicable requirements of HAR, Chapter 11-60.1.

(Auth.: HAR §11-60.1-11, §11-60.1-90)

24. Within thirty (30) days of permanent discontinuance of the construction, modification, relocation, or operation of the facility covered by this permit, the discontinuance shall be reported in writing to the Department of Health by a responsible official of the source.

(Auth.: HAR §11-60.1-8; SIP §11-60-10)²

25. Each permit renewal application shall be submitted to the Department of Health and the U.S. EPA Region 9 no less than twelve months and no more than eighteen months prior to the permit expiration date. The director may allow a permit renewal application to be submitted no less than six months prior to the permit expiration date, if the director determines that there is reasonable justification.

(Auth.: HAR §11-60.1-101, 40 CFR §70.5(a)(1)(iii))¹

26. The terms and conditions included in this permit, including any provision designed to limit a source's potential to emit, are federally enforceable unless such terms, conditions, or requirements are specifically designated as not federally enforceable.

(Auth.: HAR §11-60.1-93)

27. The compliance plan and compliance certification submittal requirements shall be in accordance with HAR, sections 11-60.1-85 and 11-60.1-86. As specified in HAR, section 11-60.1-86, the compliance certification shall be submitted to the Department of Health and the U.S. EPA Region 9 once per year, or more frequently as set by any applicable requirement.

(Auth.: HAR §11-60.1-90)

28. **Any document (including reports) required to be submitted by this permit shall be certified as being true, accurate, and complete by a responsible official in accordance with HAR, sections 11-60.1-1 and 11-60.1-4, and shall be mailed to the following address:**

**Clean Air Branch
Environmental Management Division
State of Hawaii Department of Health
P.O. Box 3378
Honolulu, HI 96801-3378**

Upon request and as required by this permit, all correspondence to the State of Hawaii Department of Health associated with this Covered Source Permit shall have duplicate copies forwarded to:

**Chief
Permits Office, (Attention: Air-3)
Air Division
U.S. Environmental Protection Agency
Region 9
75 Hawthorne Street
San Francisco, CA 94105**

(Auth.: HAR §11-60.1-4, §11-60.1-90)

29. To determine compliance with submittal deadlines for time-sensitive documents, the postmark date of the document shall be used. If the document was hand-delivered, the date received ("stamped") at the Clean Air Branch shall be used to determine the submittal date.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

¹ The citations to the Code of Federal Regulations (CFR) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the CFR. Due to the integration of the preconstruction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

² The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

**ATTACHMENT II: SPECIAL CONDITIONS
COVERED SOURCE PERMIT NO. 0522-01-C**

[Issuance Date]

Expiration Date: May 9, 2008

In addition to the Standard Conditions of the covered source permit, the following Special Conditions shall apply to the permitted facility:

Section A. Equipment Description

1. The 300 TPH Asphalt Plant encompasses the following equipment and associated appurtenances:
 - a. One (1) 300 TPH Astec double barrel counterflow drum mixer, model no. RDB 8438, serial no. 02092-2201 with Hauck EcoStar II burner, model no. WJ75UO/G1, serial no. 02092-2206;
 - b. One (1) Astec baghouse, model no. SBH-59:BP, serial no. 94-109-217;
 - c. Two (2) asphalt storage silos;
 - d. One (1) Astec fiberbed mist collector, model no. BSC-16-FBF, serial no. 06-042; and
 - e. Various conveyor belts.

(Auth.: HAR §11-60.1-3)

2. An identification tag or name plate shall be displayed on the drum mixer, baghouse, and fiberbed mist collector listed above to show the applicable manufacturer, model no., and serial no. The identification tag or name plate shall be permanently attached to the equipment in a conspicuous location.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

Section B. Applicable Federal Regulations

1. The 300 TPH Asphalt Plant is subject to the provisions of the following federal regulations:
 - a. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart A, General Provisions; and
 - b. 40 CFR Part 60, Standards of Performance for New Stationary Sources Subpart I, Standards of Performance for Hot Mix Asphalt Facilities.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR Part 60)¹

2. The permittee shall comply with all applicable provisions of these standards, including all emission limits, and all notification, testing, monitoring, and reporting requirements. The major requirements of these standards are detailed in the special conditions of this permit.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161)

Section C. Emission Limits

1. The permittee shall not discharge or cause the discharge into the atmosphere from the baghouse exhaust stack, particulate matter in excess of 90 mg/dscm (0.04 gr/dscf).

(Auth.: HAR §11-60.1-3, §11-60.1-90, 40 CFR §60.92)¹
2. For any six (6) minute averaging period, the baghouse and fiberbed mist collector shall not exhibit visible emissions of twenty (20) percent or greater, except as follows: during start-up, shutdown, or equipment breakdown, the baghouse and fiberbed mist collector may exhibit visible emissions greater than twenty (20) but not exceeding sixty (60) percent opacity for a period aggregating not more than six minutes in any sixty (60) minutes.

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-90; 40 CFR §60.92; SIP §11-60-24)^{1,2}

Section D. Operational Limits

1. Public Access Control

The fence initially constructed to control public access shall be maintained in satisfactory condition to continue the control of public access to designated plant and surrounding areas.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

2. Drum Mixer

- a. The drum mixer shall not produce more than 1,200,000 tons of asphalt concrete in any rolling 12-month period.
- b. The drum mixer shall not operate more than 18 hours per day.
- c. The drum mixer shall only be fired on the following fuels:
 - i. Fuel oil no. 2 with a maximum sulfur content not to exceed 0.5 percent by weight;
 - ii. Unitek diesel, as provided for in Special Condition D.3 of this attachment, with a maximum sulfur content not to exceed 0.5% by weight;
 - iii. Biodiesel or cooking oil as provided for in Special Condition D.4 of this attachment;
 - iv. Aviation fuels Jet-A, Jet-A1, JP-5, and JP-8;
 - v. Any combination thereof.

(Auth.: HAR §11-60.1-3, §11-60.1-38, §11-60.1-90)

3. Unitek Diesel

- a. Unitek diesel shall only be obtained from Unitek Solvent Services, Inc.
- b. The Department of Health may, at any time, require the permittee to conduct an analysis of the constituents and properties of Unitek diesel and establish limits to ensure

compliance with any federal or state requirements.

(Auth.: HAR §11-60.1-3, §11-60.1-38, §11-60.1-90)

4. Biodiesel and Cooking Oil

- a. Solids and residual water shall be removed from the cooking oil used in food processing or collected from grease traps.
- b. The Department of Health may, at any time, require the permittee to conduct an analysis of the constituents and properties of the biodiesel or cooking oil and establish limits to ensure compliance with any federal or state requirements.
- c. The permit conditions prescribed herein may at any time be revised by the Department of Health to reflect federal or state promulgated rules on biodiesel or cooking oil. The Department of Health also reserves the right to impose additional operational controls and restrictions to abate odors if a site inspection indicates controls and/or restrictions are necessary to further control the burning of biodiesel or cooking oil.
- d. Biodiesel or cooking oil shall only be obtained from Pacific Biodiesel, Inc., unless written notification identifying the new vendors and fuel specification sheets are submitted to and approved by the Department of Health, prior to acceptance of the fuel.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

5. Baghouse

- a. The baghouse servicing the drum-mixer shall be used at all times during drum mixer operation. The permittee shall not operate the drum mixer if a problem affecting baghouse control efficiency is observed at any time. The permittee shall investigate and correct the problem before resuming drum mixer operation.
- b. The baghouse pressure differential shall be maintained within the range of two (2) to six (6) inches of water.
- c. The baghouse shall be maintained in good operating condition at all times with routine scheduled inspections and maintenance as recommended by the manufacturer or as needed. The permittee shall ensure the following items are operating properly:
 - i. The filter bags are checked for any tears, holes, abrasions, and scuffs and are replaced as needed;
 - ii. The hopper is discharged in a timely manner to prevent excessive particulate buildup which could cause compaction, overflow, or plugging;
 - iii. The cleaning system is maintained and operated at sufficient intervals to minimize particulate buildup or caking on the filter bags; and
 - iv. Other miscellaneous items or equipment essential for effective baghouse operation are maintained.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

6. Fiberbed Mist Collector

- a. The inlet gas temperature of the fiberbed mist collector shall not exceed 120 degrees Fahrenheit.
- b. The prefilters for the fiberbed mist collector shall be examined once per week or as recommended by the manufacturer to check for noticeable holes and tears. Prefilters shall be replaced when the pressure drop across the fiberbed mist collector equals or exceeds 12 inches of water.

7. Plant Maintenance

The 300 TPH Asphalt Plant, including the drum mixer, baghouse, and fiberbed mist collector, shall be maintained in good operating condition with scheduled inspections and maintenance as recommended by the manufacturer, or as needed.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

8. Fugitive Dust

- a. The permittee shall take measures to control and minimize fugitive dust (e.g., wet suppression, enclosures, dust screens, etc.) from material transfer points, stockpiles, plant roads, and any other fugitive dust sources within the facility. The Department of Health may at any time require the permittee to further abate fugitive dust emissions if an inspection indicates poor or insufficient dust control.

(Auth.: HAR §11-60.1-3, §11-60.1-33, §11-60.1-90)

- b. The permittee shall not cause or permit fugitive dust to become airborne without taking reasonable precautions and shall not cause or permit the discharge of visible fugitive dust beyond the property lot line or boundary on which the emissions originate.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-33, §11-60.1-90)

Section E. Monitoring and Recordkeeping

1. Records

All records, including support information, shall be maintained for at least five (5) years following the date of the monitoring sample, measurement, test, report, or application. Support information includes all maintenance, inspection, and repair records, and copies of all reports required by this permit. These records shall be in a permanent form suitable for inspection and made available to the Department of Health or its representative upon request.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, SIP §11-60-15)²

2. Asphalt Concrete Production

The permittee shall maintain records on the amount of asphalt concrete produced on a daily,

monthly, and rolling 12-month basis to determine compliance with Special Condition D.2.a of this attachment. Production print-outs and receipts shall be maintained to substantiate daily and monthly production rates.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

3. Drum Mixer Operating Hours

- a. A non-resetting hour meter shall be operated and maintained on the drum mixer to determine daily operating hours. At a minimum, the date of operation, start and end times, and total operating hours per day for the drum mixer shall be recorded to determine compliance with the 18-hour daily operating limit provided in Special Condition D.2.b of this attachment.
- b. For each day that the drum mixer is operated more than 18 hours per day, the following shall be recorded:
 - i. Date, start-up time, and shut-down time;
 - ii. Total hours the drum-mixer was operated; and
 - iii. Reason why the limit was exceeded.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

4. Drum Mixer Fuel

The following records shall be maintained for each type of fuel used by the drum mixer:

- a. Fuel purchase receipts showing the supplier, fuel type, sulfur content (percent by weight) of fuel oil no. 2 and Unitek diesel, delivery date, and amount (gallons) of each fuel type delivered to the facility for the drum mixer;
- b. Supplier's fuel specification sheet for fuel oil no. 2 and/or Unitek diesel showing sulfur content (percent by weight) if fuel purchase receipts do not indicate the sulfur content; and
- c. Total gallons of each type of fuel consumed by the drum mixer.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

5. Baghouse Operating Pressure

- a. A pressure gauge shall be operated and maintained to monitor the baghouse pressure differential (inches of water) across the filter bags to determine compliance with Special Condition D.5.b of this attachment. In accordance with Special Condition D.5.c of this attachment, maintenance or servicing shall be performed on the baghouse if the differential pressure reading indicates the baghouse is not operating effectively.
- b. The permittee shall record the baghouse pressure gauge reading (in inches of water) once each day. Monitoring of the pressure differential shall not replace regular, routine maintenance and inspection of the baghouse.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

6. Inspection, Maintenance, and Repair Log

An inspection, maintenance, and repair log shall be maintained for the equipment covered under this permit. Inspection, replacement of parts, and repairs to the equipment shall be documented. At a minimum, the following records shall be maintained:

- a. Date that the inspection, maintenance, or repair work was performed;
- b. Name and title of personnel performing the inspection or work; and
- c. Description of the findings, any work performed on the equipment, and equipment or parts inspected, repaired, or replaced.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

7. Visible Emissions (V.E.)

Except in those months where a performance test is conducted for the drum mixer pursuant to Section G of this attachment, monthly (calendar month) V.E. observations shall be performed on the baghouse servicing the drum mixer in accordance with 40 CFR Part 60, Appendix A, Method 9, or using of the Ringelmann Chart provided. Two (2) consecutive sets of observations shall be recorded each month. Each set shall last six (6) minutes in duration and consist of twenty-four (24) readings at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the enclosed "Visible Emissions Observation Requirements."

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

8. Performance Testing

- a. An annual source performance test for the 300 TPH Asphalt Plant shall be conducted pursuant to Section G of this attachment.
- b. The permittee shall maintain records on source performance test plans, summaries, and results for the 300 TPH Asphalt Plant.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

Section F. Notification and Reporting Requirements

1. Standard Condition Reporting

Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 16, 17, and 24, respectively:

- a. Intent to shut down air pollution control equipment for necessary scheduled maintenance;

- b. Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedances due to emergencies); and
- c. Permanent discontinuance of construction, modification, relocation, or operation of the facility covered by this permit.

(Auth.: HAR §11-60.1-8, §11-60.1-15, §11-60.1-16, §11-60.1-90; SIP §11-60-10, §11-60-16)²

2. Deviations

The permittee shall report (in writing) **within five (5) working days** any *deviations from permit requirements*, including those attributable to upset conditions, the probable cause of such deviations, and any corrective actions or preventive measures taken. Corrective actions may include a requirement for additional testing, or more frequent monitoring, or could trigger implementation of a corrective action plan.

(Auth.: HAR §11-60.1-3, §11-60.1-15, §11-60.1-16, §11-60.1-90)

3. Compliance Certification

- a. During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA Region 9, the attached *Compliance Certification Form* pursuant to HAR, Subsection 11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:
 - i. Identification of each term or condition of the permit that is the basis of the certification;
 - ii. Compliance status;
 - iii. Whether compliance was continuous or intermittent;
 - iv. Methods used for determining the compliance status of the source currently and over the reporting period;
 - v. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act; and
 - vi. Any additional information as required by the Department of Health including information to determine compliance.
- b. The compliance certification shall be submitted **within ninety (90) days after** the end of each calendar year, and shall be signed and dated by a responsible official. The enclosed "*Compliance Certification*" form may be used.
- c. Upon written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department of Health determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-4, §11-60.1-86, §11-60.1-90)

4. Performance Testing

- a. At least thirty (30) days prior to conducting a source performance test pursuant to Section G of this attachment, the permittee shall submit a test plan to the Department of Health in accordance with Special Condition G.7 of this attachment.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, 40 CFR §60.8, SIP §11-60-15)^{1, 2}

- b. Written reports of all source performance test results shall be submitted to the Department of Health within sixty (60) days after the completion of the performance test and shall be in conformance with Special Condition G.10 of this attachment.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.676)¹

5. Monitoring Reports

- a. The permittee shall submit semi-annually the following reports to the Department of Health. The reports shall be submitted within sixty (60) days after the end of each **semi-annual** calendar period (January 1 - June 30 and July 1 - December 31), and shall include the following:

- i. Asphalt concrete production on a monthly and rolling 12-month basis;
- ii. Fuel type, supplier, and maximum sulfur content (percent by weight) for fuel oil no. 2 and Unitek diesel;
- iii. Number of Unitek diesel, biodiesel, and cooking or grease trap oil lab analyses performed during the report period;
- iv. Date, start and end times of operation, and total operating hours for days during which the drum mixer was operated for than 18 hours per day; and
- v. Any opacity exceedances determined during visible emissions monitoring. For each opacity exceedance, include the date of the exceedance, six (6) minute average opacity reading, possible reason for the exceedance, duration of exceedance, and corrective actions taken. If there were no exceedances for the, the permittee shall state so in the report.

- b. The enclosed forms shall be used, signed, and dated by the responsible official:

- i. Monitoring/Annual Emissions Report Form: Asphalt Drum Mixer; and
- ii. Monitoring Report Form: Visible Emissions.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

6. Annual Emissions Reports

- a. As required by Attachment IV and in conjunction with the requirements of Attachment III, Annual Fee Requirements, the permittee shall report **annually** the total tons/year emitted of each regulated air pollutant, including hazardous air pollutants. The reporting of annual emissions is due within sixty (60) days following *the end of each calendar year*. The enclosed form "**Monitoring/Annual Emissions Report: Asphalt Drum Mixer**" shall be

used to report on the total number of gallons of each type of fuel fired in the drum mixer during the calendar year.

- b. Upon the written request of the permittee, the deadline for reporting annual emissions may be extended, if the Department of Health determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

Section G. Testing Requirements

1. On an annual basis or at other times as specified by the Department of Health, performance tests for the emissions of particulate matter and the determination of opacity shall be conducted and results reported in accordance with the test methods set forth in 40 CFR Part 60 Appendix A and the procedures in 40 CFR §60.8. The following test methods or U.S. EPA-approved equivalent methods, or alternate methods with prior written approval from the Department of Health shall be used:
 - a. Performance test for the emissions of particulate matter shall be conducted using 40 CFR Part 60 Methods 1-5. For Method 5, the sampling time for each run shall be at least sixty (60) minutes and the minimum sample volume shall be at least 0.90 dscm (31.8 dscf).
 - b. Performance tests to determine opacity shall be conducted using 40 CFR Part 60 Method 9.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR § 60.93, SIP §11-60-15)^{1,2}

2. The performance test for the emissions of particulate matter shall consist of three (3) separate runs using the applicable test method. For the purpose of determining compliance with an applicable regulation, the arithmetic mean of the results from the three (3) runs shall apply.
 - a. For each run, the asphalt concrete production rate in tons/hour shall be provided. The permittee shall document the method by which the asphalt production rate was determined.
 - b. The pressure drop across the baghouse, in inches water, shall be recorded and reported for each run. There shall be one reading per run unless the value changes, then the reading shall be continuous.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, 40 CFR § 60.93, SIP § 11-60-15)^{1,2}

3. Note that Method 1 cannot be used under the following conditions:
 - a. Cyclonic or swirling gas flow at the sampling location;
 - b. Stack or duct with a diameter less than 12 inches or a cross-sectional area less than 113 square inches; or

- c. Sampling location less than two stack diameters downstream or less than a half diameter upstream from a flow disturbance.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

- 4. Particulate emissions shall be reported in two categories:

- a. Front half (filter and probe); and
- b. Front and back half (probe, filter, and impingers). When conducting back half clean-up, all connectors and tubing of the back half sampling train up to and including the first impinger shall be properly rinsed with acetone. Connecting glassware after the first impinger and the other impingers shall be rinsed with water. All rinses shall be included in the analysis for back half.

(Auth.: HAR §11-60.1-5, §11-60.1-11, §11-60.1-90)

- 5. For each run, the emission rate of particulate matter shall be determined by the equation pounds/hour = $Q_s \times c_s$, where Q_s = volumetric flow rate of the total effluent in dscf/hr as determined in accordance with Method 2, and c_s = concentration of particulate matter in pounds/dscf as determined in accordance with Method 5.

(Auth.: HAR §11-60.1-5, §11-60.1-11, §11-60.1-90)

- 6. At least thirty (30) calendar days prior to performing a test, the owner or operator shall submit a written performance test plan to the Department of Health that includes date(s) of the test, test duration, test locations, test methods, source operation, locations of visible emissions readings, and other parameters that may affect test results. Such a plan shall conform to U.S. EPA guidelines including quality assurance procedures. A test plan or quality assurance plan that does not have the approval of the Department of Health may be grounds to invalidate any test and require a retest.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

- 7. The permittee shall provide sampling and testing facilities at its own expense. The tests shall be conducted at the maximum expected operating capacity of the hot mix asphalt plant, and the Department of Health may monitor the tests.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

- 8. Any deviations from these conditions, test methods or procedures may be cause for rejection of the test results unless such deviations are approved by the Department of Health before the tests.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

- 9. Within sixty (60) days after the completion of the performance test, the permittee shall submit to the Department of Health and U.S. EPA Region 9, the test report which shall include the operating conditions of the equipment at the time of the test (e.g., operating rate in tons/hour, pressure drop readings, etc.), the summarized tests results, comparative results with the

permit emission limits, and other pertinent support calculations, and field and laboratory data.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

10. Upon written request and justification, the Department of Health may waive the requirement for, or a portion of, a specific performance test. The waiver request is to be submitted prior to the required test and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior performance test indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous test.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

Section H. Agency Notification

Any document (including reports) required to be submitted by this permit shall be done in accordance with Attachment I, Standard Condition 28.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

¹ The citation to the Code of Federal Regulations (CFR) identified under a particular condition, indicates that the permit condition complies with the specified provision(s) of the CFR. Due to the integration of the preconstruction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

² The citation to the State Implementation Plan (SIP) identified under a particular condition, indicates that the permit condition complies with the specified provision(s) of the SIP.

**ATTACHMENT II - INSIG
SPECIAL CONDITIONS - INSIGNIFICANT ACTIVITIES
COVERED SOURCE PERMIT NO. 0522-01-C**

Issuance Date:

Expiration Date: May 29, 2008

In addition to the Standard Conditions of the Covered Source Permit, the following Special Conditions shall apply to the permitted facility:

Section A. Equipment Description

This attachment encompasses insignificant activities listed in HAR, §11-60.1-82(f) and (g) for which provisions of this permit and HAR, Subchapter 2, General Prohibitions apply.

(Auth.: HAR §11-60.1-3)

Section B. Operational Limitations

1. The permittee shall take measures to operate applicable insignificant activities in accordance with the provisions of HAR, Subchapter 2 for visible emissions, fugitive dust, incineration, process industries, sulfur oxides from fuel combustion, storage of volatile organic compounds, volatile organic compound water separation, pump and compressor requirements, and waste gas disposal.

(Auth.: HAR §11-60.1-3, §11-60.1-82, §11-60.1-90)

2. The Department of Health may at any time require the permittee to further abate emissions if an inspection indicates poor or insufficient controls.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-82, §11-60.1-90)

Section C. Monitoring and Recordkeeping Requirements

1. The Department of Health reserves the right to require monitoring, recordkeeping, or testing of any insignificant activity to determine compliance with the applicable requirements.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

2. All records shall be maintained for at least five (5) years from the date of any required monitoring, recordkeeping, testing, or reporting. These records shall be in a permanent form suitable for inspection and made available to the Department of Health or its authorized representative upon request.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

CSP No. 0522-01-C
Attachment II – INSIG
Page 2 of 2
Issuance Date:
Expiration Date: May 29, 2006

Section D. Notification and Reporting

Compliance Certification

During the permit term, the permittee shall submit at least annually to the Department of Health and U.S. EPA Region 9, the attached *Compliance Certification Form* pursuant to HAR, Subsection 11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:

1. The identification of each term or condition of the permit that is the basis of the certification;
2. The compliance status;
3. Whether compliance was continuous or intermittent;
4. The methods used for determining the compliance status of the source currently and over the reporting period;
5. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act; and
6. Any additional information as required by the Department of Health including information to determine compliance.

The compliance certification shall be submitted within ninety (90) days after the end of each calendar year, and shall be signed and dated by a responsible official. Upon written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department of Health determines that reasonable justification exists for the extension.

In lieu of addressing each emission unit as specified in *Compliance Certification Form*, the permittee may address insignificant activities as a single unit provided compliance is met with all applicable requirements. If compliance is not totally attained, the permittee shall identify the specific insignificant activity and provide the details associated with the noncompliance.

(Auth.: HAR §11-60.1-4, §11-60.1-86, §11-60.1-90)

Section E. Agency Notification

Any document (including reports) required to be submitted by this Covered Source Permit shall be done in accordance with Attachment I, Standard Condition No. 28.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

**ATTACHMENT III: ANNUAL FEE REQUIREMENTS
COVERED SOURCE PERMIT NO. 0522-01-C**

Issuance Date:

Expiration Date: May 29, 2008

The following requirements for the submittal of annual fees are established pursuant to Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1, Air Pollution Control. Should HAR, Chapter 60.1 be revised such that the following requirements are in conflict with the provisions of HAR, Chapter 60.1, the permittee shall comply with the provisions of HAR, Chapter 60.1:

1. Annual fees shall be paid in full:
 - a. Within sixty (60) days after the end of each calendar year; and
 - b. Within thirty (30) days after the permanent discontinuance of the covered source.
2. The annual fees shall be determined and submitted in accordance with Hawaii Administrative Rules, Chapter 11-60.1, Subchapter 6.
3. The annual emissions data for which the annual fees are based shall accompany the submittal of any annual fees and be submitted on forms furnished by the Department of Health.
4. The annual fees and the emission data shall be mailed to:

**Clean Air Branch
Environmental Management Division
Hawaii Department of Health
P. O. Box 3378
Honolulu, HI 96801-3378**

**ATTACHMENT IV: ANNUAL EMISSIONS REPORTING REQUIREMENTS
COVERED SOURCE PERMIT NO. 0522-01-C**

Issuance Date:

Expiration Date: May 29, 2008

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the nature and amounts of emissions.

1. Complete the attached form:

Monitoring/Annual Emissions Report Form: Asphalt Drum Mixer

2. The reporting period shall be from January 1 to December 31 of each year. All reports shall be submitted to the Department of Health within sixty (60) days after the end of each calendar year and shall be mailed to the following address:

**Clean Air Branch
Environmental Management Division
Hawaii Department of Health
P. O. Box 3378
Honolulu, HI 96801-3378**

3. The permittee shall retain the information submitted, including all emission calculations. These records shall be in a permanent form suitable for inspection, retained for a minimum of five (5) years, and made available to the Department of Health upon request.
4. Any information submitted to the Department of Health without a request for confidentiality shall be considered public record.
5. In accordance with HAR, Section 11-60.1-14, the permittee may request confidential treatment of specific information, including information concerning secret processes or methods of manufacture, by submitting a written request to the Director and clearly identifying the specific information that is to be accorded confidential treatment.

COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0522-01-C
PAGE 1 OF ____

Issuance Date: _____

Expiration Date: May 8, 2009

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following certification at least annually, or more frequently as requested by the Department.

(Make Copies for Future Use)

For Period: _____ Date: _____

Company/Facility Name: _____

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by Department of Health as public record. I further state that I will assume responsibility for the construction, modification, or operation of the source in accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, and any permit issued thereof.

The purpose of this form is to evaluate whether or not the facility was in compliance with the permit terms and conditions during the covered period. If there were any deviations to the permit terms and conditions during the covered period, the deviation(s) shall be certified as *intermittent compliance* for the particular permit term(s) or condition(s). Deviations include failure to monitor, record, report, or collect the minimum data required by the permit to show compliance. Absence of any deviation, the particular permit term(s) or condition(s) may be certified as *continuous compliance*.

Instructions:

Please certify Sections A, B, and C below for continuous or intermittent compliance. Sections A and B are to be certified as a group of permit conditions. Section C shall be certified individually for each operational and emissions limit condition as listed in the Special Conditions section of the permit (list all applicable equipment for each condition). Any deviations shall also be listed individually and described in Section D. The facility may substitute its own generated form in verbatim for Sections C and D.

A. Attachment I, Standard Conditions

<u>Permit term/condition</u>	<u>Equipment(s)</u>	<u>Compliance</u>
All standard conditions	All Equipment(s) listed in the permit	Continuous Intermittent

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0522-01-C
(CONTINUED, PAGE 2 OF ____)**

Issuance Date:

Expiration Date: May 8, 2009

B. Special Conditions - Monitoring, Recordkeeping, Reporting, Testing, and INSIG

<u>Permit term/condition</u> All monitoring conditions	<u>Equipment(s)</u> All Equipment(s) listed in the permit	<u>Compliance</u> Continuous Intermittent
<u>Permit term/condition</u> All recordkeeping conditions	<u>Equipment(s)</u> All Equipment(s) listed in the permit	<u>Compliance</u> Continuous Intermittent
<u>Permit term/condition</u> All reporting conditions	<u>Equipment(s)</u> All Equipment(s) listed in the permit	<u>Compliance</u> Continuous Intermittent
<u>Permit term/condition</u> All testing conditions	<u>Equipment(s)</u> All Equipment(s) listed in the permit	<u>Compliance</u> Continuous Intermittent
<u>Permit term/condition</u> All INSIG conditions	<u>Equipment(s)</u> All Equipment(s) listed in the permit	<u>Compliance</u> Continuous Intermittent

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0522-01-C
(CONTINUED, PAGE ____ OF ____)**

Issuance Date:

Expiration Date: May 8, 2009

C. Special Conditions - Operational and Emissions Limitations

Each permit term/condition shall be identified in chronological order using attachment and section numbers (e.g. Attachment II, B.1, Attachment IIA, Special Condition No. B.1.f, etc.). Each equipment shall be identified using the description stated in Section A of the Special Conditions (e.g. unit no., model no., serial no., etc.). Check all methods (as required by permit) to show compliance for the respective permit term/condition.

<u>Permit term/condition</u>	<u>Equipment(s)</u>	<u>Method</u>	<u>Compliance</u>
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent

(Make Additional Copies if Needed)

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0522-01-C
(CONTINUED, PAGE ____ OF ____)**

Issuance Date:

Expiration Date: May 8, 2009

D. Deviations

<u>Permit Term/ Condition</u>	<u>Equipment(s) / Brief Summary of Deviation</u>	<u>Deviation Period time (am/pm) & date (mo/day/yr)</u>	<u>Date of Written Deviation Report to DOH (mo/day/yr)</u>
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	

(Make Additional Copies if Needed)

**MONITORING/ANNUAL EMISSIONS REPORT: ASPHALT DRUM MIXER
COVERED SOURCE PERMIT NO. 0522-01-C
(PAGE 1 OF 2)**

Issuance Date:

Expiration Date: May 29, 2008

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:

(Make Copies for Future Use)

For Period: _____ Date: _____

Facility Name: **Grace Pacific Corporation - 300 TPH Asphalt Plant**

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (print): _____ Title: _____

Responsible Official (sign): _____ Date: _____

ASPHALT DRUM MIXER PRODUCTION		
Month	Monthly Total (tons)	Rolling 12-Month Total (tons)
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

**MONITORING/ANNUAL EMISSIONS REPORT: ASPHALT DRUM MIXER
COVERED SOURCE PERMIT NO. 0522-01-C
(CONTINUED, PAGE 2 OF 2)**

Issuance Date:

Expiration Date: May 29, 2008

(Make Copies for Future Use)

DRUM MIXER FUEL CERTIFICATION

Fuel Type	Supplier	Maximum Sulfur Content (% by Weight)	Annual Consumption (gal/year) [Provide in 2nd semi-annual report for the calendar year]
Fuel Oil No. 2			
Jet A or A-1, JP-5 or 8		N/A	
Unitek diesel			
Biodiesel		N/A	
Cooking or Grease Trap Oil		N/A	

No. of Unitek diesel lab analyses performed during the report period: _____

No. of biodiesel lab analyses performed during the report period: _____

No. of cooking or grease trap oil lab analyses performed during the report period: _____

EXCEEDANCE OF DRUM MIXER 18-HOUR/DAY LIMIT

Report the following information for any date during which drum mixer operation exceeded 18 hours per day. If no such incidents occurred, state so below.

Date	Time		Hours Operated	Comments
	Start-up	Shut-down		

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:

(Make Copies for Future Use)

For Period: _____ Date: _____

Company/Facility Name: _____

Facility Name: _____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate, and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature):_____

Visible Emissions:

Report the following on the lines provided below: all date(s) and six (6) minute average opacity reading(s) which the opacity limit was exceeded during the monthly observations; or if there were no exceedances during the monthly observations, then write "no exceedances" in the comment column.

[illegible]

**VISIBLE EMISSIONS FORM REQUIREMENTS
STATE OF HAWAII
COURSE PERMIT NO. 0522-01-C**

Issuance Date:

Expiration Date: May 29, 2008

The *Visible Emissions (V.E.) Form* shall be completed monthly (*each calendar month*) for each equipment subject to opacity limits in accordance with 40 CFR Part 60, Appendix A, Method 9 or use of a Ringelmann Chart as provided. At least annually (*calendar year*), V.E. observation shall be conducted for each equipment subject to opacity limits by a certified reader in accordance with Method 9. The V.E. Form shall be completed as follows:

1. Visible emissions observations shall take place during the day only and shall be compared to the Ringelmann Chart provided. The opacity shall be noted in five (5) percent increments (e.g., 25%).
2. Orient the sun within a 140 degree sector to your back. Provide a source layout sketch on the V.E. Form using the symbols as shown.
3. Stand at least three (3) stack heights, but not more than a quarter mile from the stack.
4. Two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals for each stack or emission point.
5. The six (6) minute average opacity reading shall be calculated for each observation.
6. If possible, the observations shall be performed as follows:
 - a. Read from where the line of sight is at right angles to the wind direction.
 - b. The line of sight shall not include more than one (1) plume at a time.
 - c. Read at the point in the plume with the greatest opacity (without condensed water vapor), ideally while the plume is no wider than the stack diameter.
 - d. Read the plume at fifteen (15) second intervals only. Do not read continuously.
 - e. The equipment shall be operating at the maximum permitted capacity.
7. If the equipment was shut-down for that period, briefly explain the reason for shut-down in the comment column.

The permittee shall retain the completed V.E. Forms for recordkeeping. These records shall be in a permanent form suitable for inspection, retained for a minimum of five years, and made available to the Department of Health, or their representative upon request.

**VISIBLE EMISSIONS FORM
ASPHALT DRUM MIXER / DIESEL ENGINE GENERATOR
COVERED SOURCE PERMIT NO. 0522-01-C**

Issuance Date:

Expiration Date: May 29, 2008

(Make Copies for Each Stack or Emission Point)

Permit No.: _____

Company Name: _____

Fugitive emission point description: _____

Plant Production (tons/hr): _____
(During observation)

Site Conditions:

Emission point height above ground (ft): _____

Emission point distance from observer (ft): _____

Emission color (black or white): _____

Sky conditions (% cloud cover): _____

Wind speed (mph): _____

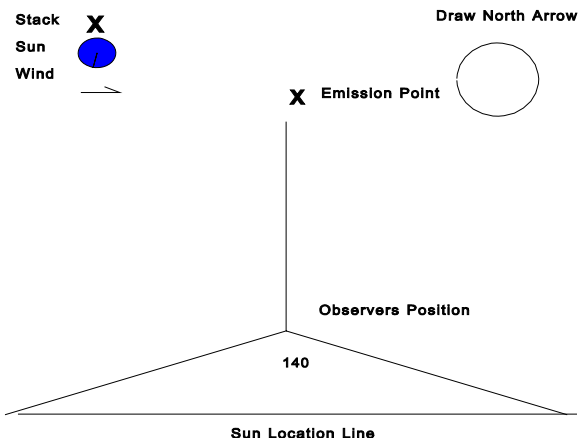
Temperature (°F): _____

Observer Name: _____

Certified? (Yes/No): _____

Observation Date and Start Time: _____

Method of observation (Ringelmann Chart or Method 9): _____



SECONDS	0	15	30	45	COMMENTS
MINUTES					
1					
2					
3					
4					
5					
6					
Six (6) Minute Average Opacity Reading (%):					

Observation Date and Start Time: _____

Method of observation (Ringelmann Chart or Method 9): _____

SECONDS	0	15	30	45	COMMENTS
MINUTES					
1					
2					
3					
4					
5					
6					
Six (6) Minute Average Opacity Reading (%):					